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L2: Entry 1 of 3

File: USPT

Aug 26, 2003

US-PAT-NO: 6611812

DOCUMENT-IDENTIFIER: US 6611812 B2

TITLE: Secure electronic content distribution on CDS and DVDs

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hurtado; Marco M.	Boca Raton	FL		
Milsted; Kenneth L.	Boynton Beach	FL		
Gruse; George G.	Lighthouse Point	FL		
Downs; Edgar	Ft. Lauderdale	FL		
Lehman; Christopher T.	Delray Beach	FL		
Spagna; Richard L.	Boca Raton	FL		
Lotspiech; Jeffrey B.	San Jose	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk NY					02

APPL-NO: 09/ 376102 [PALM]

DATE FILED: August 17, 1999

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This is a continuation-in-part of application Ser. No. 09/177,096, filed Oct. 22, 1998, now U.S. Pat. No. 6,389,538, which is a continuation-in-part of application Ser. No. 09/133,519, filed Aug. 13, 1998, now U.S. Pat. No. 6,226,618. The entire disclosure of prior application Ser. No. 09/177,096 is herein incorporated by reference.

INT-CL: [07] G06 F 17/60

US-CL-ISSUED: 705/26; 705/51, 705/76, 705/59, 705/75

US-CL-CURRENT: 705/26; 705/51, 705/59, 705/75, 705/76

FIELD-OF-SEARCH: 705/26-27, 705/56-57, 705/51, 705/76, 705/75, 705/59, 707/10, 709/224, 709/229, 717/127, 717/128, 717/178, 713/187, 713/190, 713/200

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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<input type="checkbox"/>	<u>5369705</u>	November 1994	Bird et al.	
<input type="checkbox"/>	<u>5371794</u>	December 1994	Diffie et al.	
<input type="checkbox"/>	<u>5388211</u>	February 1995	Hornbuckle	717/178
<input type="checkbox"/>	<u>5412717</u>	May 1995	Fischer	
<input type="checkbox"/>	<u>5420927</u>	May 1995	Micali	
<input type="checkbox"/>	<u>5497421</u>	March 1996	Kaufman et al.	
<input type="checkbox"/>	<u>5509071</u>	April 1996	Petrie, Jr. et al.	
<input type="checkbox"/>	<u>5519778</u>	May 1996	Leighton et al.	
<input type="checkbox"/>	<u>5537475</u>	July 1996	Micali	
<input type="checkbox"/>	<u>5557541</u>	September 1996	Schulhof et al.	
<input type="checkbox"/>	<u>5581479</u>	December 1996	McLaughlin et al.	
<input type="checkbox"/>	<u>5588060</u>	December 1996	Aziz	
<input type="checkbox"/>	<u>5592664</u>	January 1997	Starkey	
<input type="checkbox"/>	<u>5604804</u>	February 1997	Micali	
<input type="checkbox"/>	<u>5606617</u>	February 1997	Brands	
<input type="checkbox"/>	<u>5636139</u>	June 1997	McLaughlin et al.	
<input type="checkbox"/>	<u>5666420</u>	September 1997	Micali	
<input type="checkbox"/>	<u>5673316</u>	September 1997	Auerbach et al.	
<input type="checkbox"/>	<u>5675734</u>	October 1997	Hair	
<input type="checkbox"/>	<u>5710887</u>	January 1998	Chelliah et al.	
<input type="checkbox"/>	<u>5796841</u>	August 1998	Cordery et al.	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0704785	April 1996	EP	
09-285302	October 1997	JP	
09-335621	December 1997	JP	
10-086148	December 1997	JP	
10-139442	May 1998	JP	
WO 96/41445	December 1996	WO	
WO 97/43717	November 1997	WO	
WO 98/13970	April 1998	WO	
WO 98/39878	September 1998	WO	

OTHER PUBLICATIONS

Silvio Micali, Fair public-key cryptosystems, MIT--Lab. for Computer Science, pp. 113-138, 1993.*

M.A. Kaplan, XP-002132994, IBM Cryptolopes, SuperDistribution and Digital Rights Managment, <http://www.research.ibm.com/peop...plan/cryptolope-docs/crypap.html>, Dec. 30, 1996.

J. Linn, "Privacy Enhancement for Internet Electronic Mail: Part I: Message

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4200770</u>	April 1980	Hellman et al.	
<input type="checkbox"/>	<u>4218582</u>	August 1980	Hellman et al.	
<input type="checkbox"/>	<u>4272810</u>	June 1981	Gates et al.	
<input type="checkbox"/>	<u>4405829</u>	September 1983	Rivest et al.	
<input type="checkbox"/>	<u>4424414</u>	January 1984	Hellman et al.	
<input type="checkbox"/>	<u>4463387</u>	July 1984	Hashimoto et al.	
<input type="checkbox"/>	<u>4528643</u>	July 1985	Freeny, Jr.	
<input type="checkbox"/>	<u>4731840</u>	March 1988	Mniszewski et al.	
<input type="checkbox"/>	<u>4757534</u>	July 1988	Matyas et al.	
<input type="checkbox"/>	<u>4782529</u>	November 1988	Shima	
<input type="checkbox"/>	<u>4796220</u>	January 1989	Wolfe	705/56
<input type="checkbox"/>	<u>4803725</u>	February 1989	Horne et al.	
<input type="checkbox"/>	<u>4809327</u>	February 1989	Shima	
<input type="checkbox"/>	<u>4825306</u>	April 1989	Robers	
<input type="checkbox"/>	<u>4868687</u>	September 1989	Penn et al.	
<input type="checkbox"/>	<u>4868877</u>	September 1989	Fischer	
<input type="checkbox"/>	<u>4878246</u>	October 1989	Pastor et al.	
<input type="checkbox"/>	<u>4879747</u>	November 1989	Leighton et al.	
<input type="checkbox"/>	<u>4905163</u>	February 1990	Garber et al.	
<input type="checkbox"/>	<u>4926479</u>	May 1990	Goldwasser et al.	
<input type="checkbox"/>	<u>4944006</u>	July 1990	Citta et al.	
<input type="checkbox"/>	<u>4995082</u>	February 1991	Schnorr	
<input type="checkbox"/>	<u>5005200</u>	April 1991	Fischer	
<input type="checkbox"/>	<u>5130792</u>	July 1992	Tindell et al.	
<input type="checkbox"/>	<u>5159634</u>	October 1992	Reeds, III	
<input type="checkbox"/>	<u>5214702</u>	May 1993	Fischer	
<input type="checkbox"/>	<u>5220604</u>	June 1993	Gasser et al.	
<input type="checkbox"/>	<u>5224163</u>	June 1993	Gasser et al.	
<input type="checkbox"/>	<u>5224166</u>	June 1993	Hartman, Jr.	
<input type="checkbox"/>	<u>5260788</u>	November 1993	Takano et al.	
<input type="checkbox"/>	<u>5261002</u>	November 1993	Perlman et al.	
<input type="checkbox"/>	<u>5276901</u>	January 1994	Howell et al.	
<input type="checkbox"/>	<u>5315658</u>	May 1994	Micali	
<input type="checkbox"/>	<u>5319705</u>	June 1994	Halter et al.	
<input type="checkbox"/>	<u>5347580</u>	September 1994	Molva et al.	
<input type="checkbox"/>	<u>5355302</u>	October 1994	Martin et al.	

Encryption and Authentication Procedures", RFC 1421, Feb., 1993, pp. 1-37.
S. Kent, "Privacy Enhancement for Internet Electronic Mail: Part II: Certificate-Based Key Management". RFC 1422, Feb., 1993, pp. 1-28.
D. Balenson, "Privacy Enhancement for Internet Electronic Mail: Part III: Algorithms, Modes, and Identifiers", RFC 1423, Feb. 1993, pp. 1-13.
B. Kaliski, "Privacy Enhancement for Internet Electronic Mail: Part IV: Key Certification and Related Services", RFC 1424, Feb. 1993, pp. 1-8.

ART-UNIT: 3625

PRIMARY-EXAMINER: Nguyen; Cuong

ATTY-AGENT-FIRM: Gibbons; Jon A. Fleit, Kain, Gibbons, Gutman & Bongini P.L. Shofi; David M.

ABSTRACT:

A method to delivery encrypted digital content to a end user system for playing the content comprising the steps of: reading from a computer readable medium metadata which has previously associated with the content. A user selects from the metadata associated content to decrypt and the end user system establishes a secure connection with an authorization authority for decrypting the content. The end user system receives a secure container containing the decrypting key for decrypting at least part of the previously encrypted content as permitted. The system creates a secure container using the encrypting key from a clearing house, wherein the secure container has an encrypting key therein from the end user system; transferring the secure container to the clearing house for authentication of permission to decrypt the content. The system receives from the clearing house, a secure container encrypted using the encrypting key of the end user system containing the decrypting key for decrypting at least part of the previously encrypted content stored on the computer readable medium as permitted; and playing at least part of the previously encrypted content by decrypting the secure container using the encrypting key of the end user system to access the decrypting key for decrypting at least part of the encrypted content.

20 Claims, 23 Drawing figures

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L3: Entry 2 of 21

File: EPAB

May 22, 2003

PUB-NO: WO003042988A1

DOCUMENT-IDENTIFIER: WO 3042988 A1

TITLE: SYSTEM AND METHOD FOR CONTROLLING THE USE AND DUPLICATION OF DIGITAL CONTENT
DISTRIBUTED ON REMOVABLE MEDIA

PUBN-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME

COUNTRY

HUGHES, DAVID

US

ASSIGNEE-INFORMATION:

NAME

COUNTRY

SONY CORP

JP

SONY MUSIC ENTERTAINMENT INC

US

HUGHES DAVID

US

APPL-NO: US00236970

APPL-DATE: November 15, 2002

PRIORITY-DATA: US33511201P (November 15, 2001)

INT-CL (IPC): G11 B 7/007; H04 L 9/00; H04 N 7/10; H04 N 7/16; H04 N 7/167; H04 N 17/00

EUR-CL (EPC): G11B020/00

ABSTRACT:

CHG DATE=20030702 STATUS=N>Systems and methods for controlling the use and duplication of digital content distributed on removable media are described. In accordance with embodiments of the present invention digital content is protected by allowing a particular number of protected (e.g., encrypted) copies of the digital content to be made (202, 203). Typically, these copies may only be used on and moved between authorized devices (204, 205, 206). In one embodiment, if copies are desired, the maximum number of allowable copies of the protected digital content are made and stored on a computer's hard drive when the storage medium (e.g., a CD) containing the content is inserted into the computer (201, 202, 203). Each copy can then be moved but not copied to other devices (e.g., portable solid state devices) (204, 205, 206). In an alternative embodiment, the storage medium containing the digital content is writable (e.g., a CD-R). When the storage medium is inserted into the computer, the computer writes information to the storage medium which regulates future copying and playing of the digital content on the storage medium (404).

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L3: Entry 4 of 21

File: EPAB

May 23, 2001

PUB-NO: EP001102249A1

DOCUMENT-IDENTIFIER: EP 1102249 A1

TITLE: REPRODUCING APPARATUS AND RECORDED MEDIUM

PUBN-DATE: May 23, 2001

INVENTOR-INFORMATION:

NAME	COUNTRY
OKAMOTO, KOJIRO	JP
SHIMADA, HIROMICHI	JP
FUKUSHIMA, YOSHIHISA	JP

ASSIGNEE-INFORMATION:

NAME	COUNTRY
MATSUSHITA ELECTRIC IND CO LTD	JP

APPL-NO: EP99933163

APPL-DATE: July 28, 1999

PRIORITY-DATA: JP21368598A (July 29, 1998), JP23818098A (August 25, 1998), JP23818198A (August 25, 1998)

INT-CL (IPC): G11 B 7/007; G11 B 7/00; G11 B 7/24; G11 B 19/04; G11 B 20/10
EUR-CL (EPC): G11B007/007; G11B019/04, G11B020/00

ABSTRACT:

CHG DATE=20010601 STATUS=O> There is provided a scheme for copy protection when encrypted main data in a DVD-ROM which is a reproduction-only type optical disk is copied, together with control information including a key information item for decryption in the DVD-ROM and an identification information item indicating that the disk concerned is of a reproduction-only type, into a primary recording region of a DVD-R which is a write-once optical disk. To this end, recorded in a secondary recording region of a DVD-R is control information including an invalid key information item and an identification information indicating that the disk concerned is of a write-once type. In addition, a track in a primary recording region of the DVD-R is wobbled at a specific pitch. In a DVD reproducing apparatus of the invention, an optical pickup (42) is moved in a direction toward the internal periphery of a DVD-R (10) until a wobble detector circuit (70) no longer detects in a tracking error signal (Ste) a signal component having a wobble frequency which is determined by a pitch relating to the wobbling of the track in the primary recording region of the DVD-R and a constant linear velocity. This seeks out genuine control information in the secondary recording region located on

the side of the internal periphery of the DVD-R.

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L3: Entry 5 of 21

File: DWPI

Oct 17, 2003

DERWENT-ACC-NO: 2003-815183

DERWENT-WEEK: 200413

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TITLE: Optical disk reproduction apparatus e.g. for DVD, controls reproduction of data from DVD based on digital copy control information stored in DVD, when wobble pattern is not present in DVD

INVENTOR: YAMADA, J

PATENT-ASSIGNEE: MATSUSHITA ELECTRIC IND CO LTD (MATU), MATSUSHITA DENKI SANGYO KK (MATU)

PRIORITY-DATA: 2002JP-0110169 (April 12, 2002)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> KR 2003081105 A	October 17, 2003		000	G11B020/10
<input type="checkbox"/> EP 1353331 A2	October 15, 2003	E	019	G11B020/00
<input type="checkbox"/> JP 2004005940 A	January 8, 2004		013	G11B020/10
<input type="checkbox"/> CN 1452166 A	October 29, 2003		000	G11B020/10

DESIGNATED-STATES: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR2003081105A	April 9, 2003	2003KR-0022274	
EP 1353331A2	April 11, 2003	2003EP-0252307	
JP2004005940A	April 11, 2003	2003JP-0107927	
CN 1452166A	April 11, 2003	2003CN-0110140	

INT-CL (IPC): [G11 B 7/00](#); [G11 B 7/005](#); [G11 B 7/007](#); [G11 B 19/02](#); [G11 B 19/12](#); [G11 B 20/00](#); [G11 B 20/10](#); [H04 N 5/91](#); [H04 N 5/92](#)

ABSTRACTED-PUB-NO: EP 1353331A

BASIC-ABSTRACT:

NOVELTY - An encryption detector detects encryption in each digital audio contents unit of digital audio data reproduced from a DVD. A wobble detector (13) detects the wobble pattern formed on the DVD. If the data is encrypted and wobble pattern

is present, a controller (4) stops the data reproduction from the DVD, else the data reproduction is controlled based on digital copy control information stored in the DVD.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for optical disk reproduction controlling method.

USE - For reproducing audio and video data from optical disk e.g. DVD.

ADVANTAGE - Since the unauthorized data in the DVD is identified, reproduction of the unauthorized data is prevented effectively using a simple technique.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the optical disk reproduction apparatus.

DVD 1

optical pickup 3

decoder 6

controller 4

wobble detector 13

ABSTRACTED-PUB-NO: EP 1353331A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/12

DERWENT-CLASS: W04

EPI-CODES: W04-C05; W04-C10A; W04-F01L1; W04-G01L1;

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L3: Entry 6 of 21

File: DWPI

Jan 2, 2004

DERWENT-ACC-NO: 2003-067200

DERWENT-WEEK: 200409

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TITLE: Copy protection system for DVD, CD-ROM, encrypts disk data using encryption bus key derived based on key distribution data block, device keys and random number

INVENTOR: RIPLEY, M; TRAW, B ; RIPLEY, M S ; TRAW, B S

PATENT-ASSIGNEE: INTEL CORP (ITLC), RIPLEY M S (RIPLI), TRAW B S (TRAWI)

PRIORITY-DATA: 2001US-0823423 (March 29, 2001)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> EP 1374237 A2	January 2, 2004	E	000	G11B020/00
<input type="checkbox"/> US 20020141577 A1	October 3, 2002		011	H04N007/167
<input type="checkbox"/> WO 200280170 A2	October 10, 2002	E	000	G11B020/00

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL
PT RO SE SI TR AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT
TZ UA UG UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU
MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1374237A2	March 7, 2002	2002EP-0721303	
EP 1374237A2	March 7, 2002	2002WO-US07085	
EP 1374237A2		WO 200280170	Based on
US20020141577A1	March 29, 2001	2001US-0823423	
WO 200280170A2	March 7, 2002	2002WO-US07085	

INT-CL (IPC): [G11 B 20/00](#); [H04 N 7/167](#)

RELATED-ACC-NO: 2003-110651

ABSTRACTED-PUB-NO: US20020141577A

BASIC-ABSTRACT:

NOVELTY - An encryption subsystem encrypts data accessed from a disk using an encryption key prior to transmitting the encrypted data through a data bus. The encryption key is derived based on a key distribution data block, device keys assigned to the encryption subsystem and a random number.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Copy protection method; and
- (2) Copy protection apparatus.

USE - For protecting digital content stored on a storage medium such as DVD, CD-ROM, optical disk, magneto-optical disk, flash-based memory, floppy disk, hard drive, ROM, RAM, EPROM, EEPROM, magnetic or optical cards, from unauthorized copying.

ADVANTAGE - Effectively improves the protection of digital content transmitted over bus and protects the content against reply attack by using the random number to generate the encryption key.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating DVD contents decrypting and descrambling procedure.

ABSTRACTED-PUB-NO: US20020141577A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.5/5

DERWENT-CLASS: T01 T03
EPI-CODES: T01-D01; T03-P07A;

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L3: Entry 7 of 21

File: DWPI

Oct 18, 2002

DERWENT-ACC-NO: 2002-601313

DERWENT-WEEK: 200301

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TITLE: Copy-protected optical disk e.g. CD-ROM, CD-R has program with two or more selectable security levels being encrypted based upon performed and unique identification numbers

INVENTOR: BARNARD, J A; HA, B L ; INCHALIK, M A

PATENT-ASSIGNEE: EASTMAN KODAK CO (EAST)

PRIORITY-DATA: 2001US-0772149 (January 29, 2001)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 2002304808 A	October 18, 2002		014	G11B020/10
<input type="checkbox"/> EP 1229536 A2	August 7, 2002	E	016	G11B020/00
<input type="checkbox"/> US 20020144114 A1	October 3, 2002		000	H04K001/00

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002304808A	January 28, 2002	2002JP-0018467	
EP 1229536A2	January 17, 2002	2002EP-0075191	
US20020144114A1	January 29, 2001	2001US-0772149	

INT-CL (IPC): G06 F 1/00; G06 F 12/14; G11 B 7/004; G11 B 7/007; G11 B 20/00; G11 B 20/10; G11 B 20/12; H04 K 1/00

ABSTRACTED-PUB-NO: EP 1229536A

BASIC-ABSTRACT:

NOVELTY - The copy-protected optical disk (10) has a performed identification (ID) number (22) which is recorded in an ATIP channel and is stored in sub-code data channels during optical disk manufacture. An unique ID number (24) is written on the optical disk, after the disk is manufactured. The program (30) including two or more selectable security levels is encrypted based upon the performed ID and unique ID numbers and is included in the optical disk.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Copy-protection method; and
- (2) Copy-protection system.

USE - Copy-protected optical disk such as CD-ROM, CD-R or CD-RW.

ADVANTAGE - The usage of both performed ID and unique ID numbers eliminate the number of duplication methods. Duplication of software is avoided. The use of a multiply-written performed ID number allows several levels of security.

DESCRIPTION OF DRAWING(S) - The figure shows the plan view of the compact disk which is copy protected.

Copy protected optical disk 10

Performed ID number 22

Unique ID number 24

Program 30

ABSTRACTED-PUB-NO: US20020144114A
EQUIVALENT-ABSTRACTS:

NOVELTY - The copy-protected optical disk (10) has a performed identification (ID) number (22) which is recorded in an ATIP channel and is stored in sub-code data channels during optical disk manufacture. An unique ID number (24) is written on the optical disk, after the disk is manufactured. The program (30) including two or more selectable security levels is encrypted based upon the performed ID and unique ID numbers and is included in the optical disk.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Copy-protection method; and
- (2) Copy-protection system.

USE - Copy-protected optical disk such as CD-ROM, CD-R or CD-RW.

ADVANTAGE - The usage of both performed ID and unique ID numbers eliminate the number of duplication methods. Duplication of software is avoided. The use of a multiply-written performed ID number allows several levels of security.

DESCRIPTION OF DRAWING(S) - The figure shows the plan view of the compact disk which is copy protected.

Copy protected optical disk 10

Performed ID number 22

Unique ID number 24

Program 30

CHOSEN-DRAWING: Dwg.1/7

DERWENT-CLASS: T03

EPI-CODES: T03-B01D1; T03-B05; T03-H02A1C; T03-N01; T03-P07A;

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L3: Entry 8 of 21

File: DWPI

Jun 7, 2002

DERWENT-ACC-NO: 2002-514168

DERWENT-WEEK: 200255

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TITLE: Data terminal equipment used in data distribution system has license management device which stores received license of encryption content data from delivery server, in license area of memory

PATENT-ASSIGNEE: DENON CO LTD (NPCO), FUJITSU LTD (FUIT), HITACHI LTD (HITA), PFU KK (USAE), SANYO ELECTRIC CO LTD (SAOL)

PRIORITY-DATA: 2000JP-0362914 (November 29, 2000)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 2002164885 A</u>	June 7, 2002		037	H04L009/32

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002164885A	November 29, 2000	2000JP-0362914	

INT-CL (IPC): G06 F 13/00; G09 C 1/00; G10 K 15/02; G10 L 11/00; H04 L 9/08; H04 L 9/32

ABSTRACTED-PUB-NO: JP2002164885A

BASIC-ABSTRACT:

NOVELTY - A personal computer copies the encryption content data, the content files (601-60n) and a server information file from a CD-ROM to a hard disc (530). A delivery server performs the delivery of the license of the encryption content data based on the address and access place of an access device. The received license is stored in the license area of the memory of a license management device.

USE - Used in data distribution system which enables copyright protection.

ADVANTAGE - Ensures acquisition of license for reproduction of encryption content data if encryption content data are acquired from a recording medium.

DESCRIPTION OF DRAWING(S) - The figure shows the structure of content list file in hard disc of personal computer. (Drawing includes non-English language text).

Hard disc 530

Content files 601-60n

ABSTRACTED-PUB-NO: JP2002164885A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.18/22

DERWENT-CLASS: P85 P86 T01 W01 W04
EPI-CODES: T01-H; W01-A05A; W01-A05B; W04-V;

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L3: Entry 9 of 21

File: DWPI

May 28, 2001

DERWENT-ACC-NO: 2002-223806

DERWENT-WEEK: 200228

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TITLE: Method for preventing compact disk from malicious copying - wherein the mother disk preserves an area stored with a data for preventing malicious copying

INVENTOR: LIN, G

PATENT-ASSIGNEE: INVENTEC CORP (INVEN)

PRIORITY-DATA: 1998TW-0102776 (February 26, 1998)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> TW 436691 A	May 28, 2001		000	G06F012/14

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
TW 436691A	February 26, 1998	1998TW-0102776	

INT-CL (IPC): G06 F 12/14; G11 B 7/00

ABSTRACTED-PUB-NO: TW 436691A

BASIC-ABSTRACT:

NOVELTY - The present invention provides a method for preventing CD from malicious copying, which forms the application data by pressing in a mother disk, and also preserves an area on the mother disk stored with a data. Thus, the disk that is copied from the mother disk also has the data remained thereon. The magnitude of the data is used to obtain a characteristic value. Then, the characteristic value is used to generate an encryption key and the corresponding product serial number by an encryption algorithm. When the software in the compact disk is to be installed into the computer, it is first required to input a correct product serial number. After decrypting the key, the characteristic value in the compact disk can be obtained and verified. If the verification is passed to assure that the compact disk is an original copy, the installation can be continued and the characteristic value is encrypted to determine an encryption value for being stored in the computer. When the application software is executed, the encryption value in the computer is verified at random time to avoid a malicious change. At the same time, the value is used to determine whether the compact disk is an original copy. Therefore, with the encryption method of the present invention, the compact disk can not be uplicated thereby effectively preventing the compact disks from being malicious copied.

ABSTRACTED-PUB-NO: TW 436691A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/1

DERWENT-CLASS: T01 T03
EPI-CODES: T01-H01C2; T03-B;

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L3: Entry 10 of 21

File: DWPI

Mar 30, 2001

DERWENT-ACC-NO: 2002-085123

DERWENT-WEEK: 200212

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TITLE: Digital audio-video data copy management procedure involves copying digital contents from DVD-RAM to smart media after forwarding and recording encryption key in smart media

PATENT-ASSIGNEE: TOSHIBA KK (TOKE)

PRIORITY-DATA: 1999JP-0258264 (September 13, 1999)

☐ Search Selected☐ Search ALL☐ Clear

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 2001084695 A</u>	March 30, 2001		004	G11B020/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001084695A	September 13, 1999	1999JP-0258264	

INT-CL (IPC): G06 F 12/14; G06 K 17/00; G09 C 1/00; G11 B 20/10; H04 L 9/10; H04 N 5/91

ABSTRACTED-PUB-NO: JP2001084695A

BASIC-ABSTRACT:

NOVELTY - A DVD-RAM drive (31) encrypts the ID (34) of smart media in player (32), and stores it in DVD-RAM, The encryption key currently recorded in DVD-RAM is transmitted to player, encrypted and recorded in smart media, following which the digital contents stored in DVD-RAM are copied into the smart media.

USE - For managing copy of digital audio-video data from DVD-RAM to smart media.

ADVANTAGE - The digital data are copied, efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of DVD-RAM drive and player. (Drawing includes non-English language text).

DVD-RAM drive 31

Player 32

Smart media ID 34

ABSTRACTED-PUB-NO: JP2001084695A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/4

DERWENT-CLASS: P85 T01 T03 W01
EPI-CODES: T01-D01; T03-P07; W01-A05A;

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L3: Entry 11 of 21

File: DWPI

Mar 23, 2001

DERWENT-ACC-NO: 2001-312912

DERWENT-WEEK: 200133

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TITLE: Data provision apparatus for illegal copying of DVD-RAM, decodes disk key based on master key, after which data is encrypted

PATENT-ASSIGNEE: SONY CORP (SONY)

PRIORITY-DATA: 1999JP-0248420 (September 2, 1999)

Search Selected

Search ALL

Clear

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 2001077802 A	March 23, 2001		019	H04L009/08

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001077802A	September 2, 1999	1999JP-0248420	

INT-CL (IPC): G06 F 12/14; G11 B 20/10; H04 L 9/08; H04 N 5/84; H04 N 5/91

ABSTRACTED-PUB-NO: JP2001077802A

BASIC-ABSTRACT:

NOVELTY - Disk key which is encrypted by a master key, is acquired by an acquisition unit. The disk key is decoded based on master key in memory (41). Data encryption is performed by device (43) after decoding.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Data provision procedure;
- (b) Data provision program;
- (c) Disk;
- (d) Disk manufacture

USE - For illegal copying of digital-video-disk random access memory (DVD-RAM).

ADVANTAGE - Illegal copy of DVD-RAM is prevented reliably by encrypting disk key by another master key.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of DVD recorder.
(Drawing includes non-English language text).

Memory 41

Device 43

ABSTRACTED-PUB-NO: JP2001077802A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.7/21

DERWENT-CLASS: T01 T03 W01 W04

EPI-CODES: T01-H01C2; T03-P01; W01-A05A; W04-C; W04-F;

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L3: Entry 12 of 21

File: DWPI

Feb 26, 2003

DERWENT-ACC-NO: 2001-598301

DERWENT-WEEK: 200345

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TITLE: Recording medium for recording content data with copy control information data for optical recording media e.g. DVD

INVENTOR: SUZUKI, T

PATENT-ASSIGNEE: PIONEER ELECTRONIC CORP (PIOE), PIONEER CORP (PIOE)

PRIORITY-DATA: 1999JP-0192307 (July 6, 1999)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> KR 373606 B	February 26, 2003		000	G11B020/10
<input type="checkbox"/> EP 1067540 A2	January 10, 2001	E	013	G11B020/00
<input type="checkbox"/> CN 1287357 A	March 14, 2001		000	G11B019/02
<input type="checkbox"/> JP 2001023298 A	January 26, 2001		010	G11B020/10
<input type="checkbox"/> KR 2001015190 A	February 26, 2001		000	G11B020/10
<input type="checkbox"/> TW 482997 A	April 11, 2002		000	G11B020/00

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR 373606B	July 6, 2000	2000KR-0038466	
KR 373606B		KR2001015190	Previous Publ.
EP 1067540A2	July 5, 2000	2000EP-0114448	
CN 1287357A	July 6, 2000	2000CN-0109795	
JP2001023298A	July 6, 1999	1999JP-0192307	
KR2001015190A	July 6, 2000	2000KR-0038466	
TW 482997A	July 5, 2000	2000TW-0113328	

INT-CL (IPC): [G09 C 1/00](#); [G09 C 5/00](#); [G11 B 19/02](#); [G11 B 19/04](#); [G11 B 19/12](#); [G11 B 20/00](#); [G11 B 20/10](#)

ABSTRACTED-PUB-NO: EP 1067540A

BASIC-ABSTRACT:

NOVELTY - The copy control information data is for managing copy operation of the content data. The content data includes discrimination data indicating whether or not the content data has been encrypted.

DETAILED DESCRIPTION - INDEPENDENT CLAIMs are included for a recording medium for, a recording medium according, an apparatus for reproducing, and a reproduction apparatus according.

USE - For recording content data with copy control information data. For optical disc media e.g. DVD.

ADVANTAGE - Prevents data from legitimate DVD from not being reproduced due to non-encryption copy protection.

DESCRIPTION OF DRAWING(S) - The drawing shows the content data structure.

ABSTRACTED-PUB-NO: EP 1067540A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/7

DERWENT-CLASS: W04

EPI-CODES: W04-C10A3; W04-F01L;

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L3: Entry 13 of 21

File: DWPI

Oct 24, 2002

DERWENT-ACC-NO: 2000-121807

DERWENT-WEEK: 200273

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TITLE: Information signal reproduction apparatus for VTR, DVD - has regeneration limitation controller, that controls regeneration limitation of information signal based on detection o/p of encryption existence detector and duplication control information detector

INVENTOR: EZAKI, T; KIMURA, Y ; KORI, T ; OGINO, A

PATENT-ASSIGNEE: SONY CORP (SONY), FROMMER W S (FROMI)

PRIORITY-DATA: 1998JP-0160979 (June 9, 1998)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> US 20020156742 A1	October 24, 2002		000	G06F017/60
<input type="checkbox"/> JP 11353795 A	December 24, 1999		019	G11B020/10
<input type="checkbox"/> CA 2273758 A1	December 9, 1999	E	000	H04N005/913
<input type="checkbox"/> KR 2000006034 A	January 25, 2000		000	G11B020/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20020156742A1	June 8, 1999	1999US-0328241	
JP 11353795A	June 9, 1998	1998JP-0160979	
CA 2273758A1	June 9, 1999	1999CA-2273758	
KR2000006034A	June 9, 1999	1999KR-0021312	

INT-CL (IPC): G06 F 17/60; G09 C 5/00; G11 B 20/10; G11 B 23/28; H04 L 9/00; H04 L 9/18; H04 N 5/91; H04 N 5/913

ABSTRACTED-PUB-NO: JP 11353795A

BASIC-ABSTRACT:

NOVELTY - A regeneration limitation controller (15) controls regeneration limitation of information signal based on detection output of encryption existence detector and duplication control information detector. DETAILED DESCRIPTION - Encryption existence detectors (11,12) detect whether encryption of read information signal is performed from a recording medium. A duplication control information detector (14) detects duplication control information from the recording medium and outputs a detection result. INDEPENDENT CLAIMS are also

included for the following: information signal output device; information signal regeneration method; information signal output method

USE - For VTR , digital VTR , DVD.

ADVANTAGE - Reproduction limitation is performed, when unjust duplication of information signal is judged and it is informed to the user. DESCRIPTION OF DRAWING (S) - The figure shows block diagram of components of information signal reproducing apparatus. (11,12) Encryption existence detectors; (14) Duplication control information detector; (15) Regeneration limitation controller.

ABSTRACTED-PUB-NO: JP 11353795A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/10

DERWENT-CLASS: P85 T03 W01 W04
EPI-CODES: T03-P01; W01-A05A; W04-F;

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L3: Entry 13 of 21

File: DWPI

Oct 24, 2002

DERWENT-ACC-NO: 2000-121807

DERWENT-WEEK: 200273

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Information signal reproduction apparatus for VTR, DVD - has regeneration limitation controller, that controls regeneration limitation of information signal based on detection o/p of encryption existence detector and duplication control information detector

INVENTOR: EZAKI, T; KIMURA, Y ; KORI, T ; OGINO, A

PATENT-ASSIGNEE: SONY CORP (SONY), FROMMER W S (FROMI)

PRIORITY-DATA: 1998JP-0160979 (June 9, 1998)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 20020156742 A1</u>	October 24, 2002		000	G06F017/60
<input type="checkbox"/> <u>JP 11353795 A</u>	December 24, 1999		019	G11B020/10
<input type="checkbox"/> <u>CA 2273758 A1</u>	December 9, 1999	E	000	H04N005/913
<input type="checkbox"/> <u>KR 2000006034 A</u>	January 25, 2000		000	G11B020/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20020156742A1	June 8, 1999	1999US-0328241	
JP 11353795A	June 9, 1998	1998JP-0160979	
CA 2273758A1	June 9, 1999	1999CA-2273758	
KR2000006034A	June 9, 1999	1999KR-0021312	

INT-CL (IPC): G06 F 17/60; G09 C 5/00; G11 B 20/10; G11 B 23/28; H04 L 9/00; H04 L 9/18; H04 N 5/91; H04 N 5/913

ABSTRACTED-PUB-NO: JP 11353795A

BASIC-ABSTRACT:

NOVELTY - A regeneration limitation controller (15) controls regeneration limitation of information signal based on detection output of encryption existence detector and duplication control information detector. DETAILED DESCRIPTION - Encryption existence detectors (11,12) detect whether encryption of read information signal is performed from a recording medium. A duplication control information detector (14) detects duplication control information from the recording medium and outputs a detection result. INDEPENDENT CLAIMS are also

included for the following: information signal output device; information signal regeneration method; information signal output method

USE - For VTR , digital VTR , DVD.

ADVANTAGE - Reproduction limitation is performed, when unjust duplication of information signal is judged and it is informed to the user. DESCRIPTION OF DRAWING (S) - The figure shows block diagram of components of information signal reproducing apparatus. (11,12) Encryption existence detectors; (14) Duplication control information detector; (15) Regeneration limitation controller.

ABSTRACTED-PUB-NO: JP 11353795A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/10

DERWENT-CLASS: P85 T03 W01 W04

EPI-CODES: T03-P01; W01-A05A; W04-F;

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L3: Entry 14 of 21

File: DWPI

Dec 21, 1999

DERWENT-ACC-NO: 2000-115511
DERWENT-WEEK: 200010
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TITLE: Data decrypting device of data securing medium for protecting digital video disk recordings from home copying and commercial piracy

INVENTOR: KULINETTS, J M

PATENT-ASSIGNEE: SOFTWARE SECURITY INC (SOFTN)

PRIORITY-DATA: 1997US-0857244 (May 16, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 6005940 A</u>	December 21, 1999		013	H04L009/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6005940A	May 16, 1997	1997US-0857244	

INT-CL (IPC): H04 L 9/00

ABSTRACTED-PUB-NO: US 6005940A
BASIC-ABSTRACT:

NOVELTY - A reader (20) reads encrypted data and the unique decrypting information stored with each frame of encrypted data and transmits the decrypting information to a transponder (2). The transponder includes a deciphering engine to decipher the received information into a decryption key, and transmits the key to the reader. A decryption circuit in the reader decrypts the read data using the key.

DETAILED DESCRIPTION - The unique decrypting information is the serial number of the frame. An energy coupling circuit provides energy to the transponder. The transponder includes a stored data key which is combined in algorithm with the decrypting information to derive the decryption key. An INDEPENDENT CLAIM is also included for data decrypting method.

USE - For protecting digital video recordings from home copying and commercial piracy.

ADVANTAGE - Offers data medium of encrypted data which frustrates the manufacture of illicit copies of the data medium. The non-volatile memory storing secret deciphering key is configured to maintain secrecy and avoid an illicit decryption

of optical disk carrier such as DVD, audio CD or CD-ROM.

DESCRIPTION OF DRAWING(S) - The figure shows a CD-ROM or DVD having self-contained transponder for calculation a decryption keys.

Transponder 2

Reader 20

ABSTRACTED-PUB-NO: US 6005940A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/9

DERWENT-CLASS: W01 W04

EPI-CODES: W01-A05A; W04-C10A3;

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L3: Entry 15 of 21

File: DWPI

Aug 10, 1999

DERWENT-ACC-NO: 1999-503890

DERWENT-WEEK: 199942

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TITLE: License issue system for CD-ROM, DVD - writes decoding key, frequency of duplication data stored in encrypted form on master card to user IC card and when copy is performed from user IC card, duplication dummy data is subtracted

PATENT-ASSIGNEE: NIPPON CHEMICON CORP (NIEM)

PRIORITY-DATA: 1998JP-0035484 (February 2, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 11219291 A</u>	August 10, 1999		011	G06F009/06

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 11219291A	February 2, 1998	1998JP-0035484	

INT-CL (IPC): G06 F 9/06; G06 F 12/14; G09 C 1/00; H04 L 9/10; H04 L 9/32

ABSTRACTED-PUB-NO: JP 11219291A

BASIC-ABSTRACT:

NOVELTY - A master IC card (6) stores the decoding data and frequency of duplication data, which are written to the user IC card (8), in an encrypted form using common key data. Whenever a copy is performed using user IC card, the frequency of duplication data is subtracted.

USE - For preventing unauthorized usage of storage devices like CD-ROM, DVD which store licensed software.

ADVANTAGE - Prevents usage of decoding key by unauthorized personnel. Ensures high security. DESCRIPTION OF DRAWING(S) - The diagram shows the perspective view of license issue system. (6) Master IC card; (8) User IC card.

ABSTRACTED-PUB-NO: JP 11219291A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/7

DERWENT-CLASS: P85 T01 W01

EPI-CODES: T01-F06; T01-H01C2; W01-A05A; W01-A05B;

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L3: Entry 16 of 21

File: DWPI

Aug 20, 2002

DERWENT-ACC-NO: 1999-509268

DERWENT-WEEK: 200257

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TITLE: Copy prevention apparatus for preventing copying of contents of recording medium e.g. floppy disk, compact disk CD, digital video disk DVD - has extraction circuit that obtains watermark information from encrypted and then decoded multimedia data, and disk key acquisition unit that obtains disk key based on partial master key

INVENTOR: ENDOH, K; ENDOH, N ; KATO, T ; YAMADA, H

PATENT-ASSIGNEE: TOSHIBA KK (TOKE), TOSHIBA MICROELECTRONICS CORP (TOSZ)

PRIORITY-DATA: 1997JP-0361980 (November 20, 1997)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 6438692 B1</u>	August 20, 2002		000	H04L009/32
<input type="checkbox"/> <u>CN 1220459 A</u>	June 23, 1999		001	G11B020/10
<input type="checkbox"/> <u>JP 11232779 A</u>	August 27, 1999		020	G11B020/10
<input type="checkbox"/> <u>KR 99045452 A</u>	June 25, 1999		000	G11B020/10
<input type="checkbox"/> <u>US 6301663 B1</u>	October 9, 2001		000	H04L009/00
<input type="checkbox"/> <u>US 20020003880 A1</u>	January 10, 2002		000	H04N007/167
<input type="checkbox"/> <u>KR 279523 B</u>	March 2, 2001		000	G11B020/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6438692B1	November 19, 1998	1998US-0195918	Div ex
US 6438692B1	August 23, 2001	2001US-0934762	
US 6438692B1		US 6302663	Div ex
CN 1220459A	November 20, 1998	1998CN-0122544	
JP 11232779A	November 13, 1998	1998JP-0323879	
KR 99045452A	November 20, 1998	1998KR-0049893	
US 6301663B1	November 19, 1998	1998US-0195918	
US20020003880A1	November 19, 1998	1998US-0195918	Div ex
US20020003880A1	August 23, 2001	2001US-0934762	
US20020003880A1		US 6301663	Div ex
KR 279523B	November 20, 1998	1998KR-0049893	

KR 279523B

KR 99045452

Previous Publ.

INT-CL (IPC): G06 F 12/14; G09 C 1/00; G09 C 5/00; G11 B 7/00; G11 B 20/10; H04 L 9/00; H04 L 9/10; H04 L 9/32; H04 N 7/167

ABSTRACTED-PUB-NO: CN 1220459A

BASIC-ABSTRACT:

NOVELTY - An extraction circuit (11) obtains the watermark information from the encrypted and then decoded multimedia data. A disk key acquisition unit obtains a disk key based on a partial master key. The obtained disk key is used in a fourth decoding unit for decoding multimedia transmitted by a fourth transmitter. DETAILED DESCRIPTION - An encryption circuit (4) has a first encryption unit that encrypts the disk key of a decoding circuit (5) which is connected to the encryption circuit via a CPU bus (B), using the disk key itself. A first transmitter transmits the encrypted disk key. A second encryption unit encrypts the disk key using a master key. A second transmitter transmits the encrypted disk key. A third encryption unit encrypts multimedia data in which an electronic watermark information which is a part of the master key is embedded. A third transmitter transmits the encrypted multimedia data. A first and second decoding unit individually decodes the two encrypted disk keys. A third decoding unit decodes the encrypted multimedia data.

USE - For preventing copying contents of recording medium e.g. floppy disk, CD, DVD.

ADVANTAGE - Illegal selling of copies is prevented. Enables copyright to be protected more firmly. DESCRIPTION OF DRAWING(S) - The drawing shows the block diagram of the copy prevention apparatus. (4) Encryption circuit; (5) Decoding circuit; (11) Extraction circuit; (B) CPU bus.

ABSTRACTED-PUB-NO: JP 11232779A

EQUIVALENT-ABSTRACTS:

NOVELTY - An extraction circuit (11) obtains the watermark information from the encrypted and then decoded multimedia data. A disk key acquisition unit obtains a disk key based on a partial master key. The obtained disk key is used in a fourth decoding unit for decoding multimedia transmitted by a fourth transmitter. DETAILED DESCRIPTION - An encryption circuit (4) has a first encryption unit that encrypts the disk key of a decoding circuit (5) which is connected to the encryption circuit via a CPU bus (B), using the disk key itself. A first transmitter transmits the encrypted disk key. A second encryption unit encrypts the disk key using a master key. A second transmitter transmits the encrypted disk key. A third encryption unit encrypts multimedia data in which an electronic watermark information which is a part of the master key is embedded. A third transmitter transmits the encrypted multimedia data. A first and second decoding unit individually decodes the two encrypted disk keys. A third decoding unit decodes the encrypted multimedia data.

USE - For preventing copying contents of recording medium e.g. floppy disk, CD, DVD.

ADVANTAGE - Illegal selling of copies is prevented. Enables copyright to be protected more firmly. DESCRIPTION OF DRAWING(S) - The drawing shows the block diagram of the copy prevention apparatus. (4) Encryption circuit; (5) Decoding circuit; (11) Extraction circuit; (B) CPU bus.

US 6301663B

NOVELTY - An extraction circuit (11) obtains the watermark information from the encrypted and then decoded multimedia data. A disk key acquisition unit obtains a disk key based on a partial master key. The obtained disk key is used in a fourth decoding unit for decoding multimedia transmitted by a fourth transmitter. DETAILED DESCRIPTION - An encryption circuit (4) has a first encryption unit that encrypts the disk key of a decoding circuit (5) which is connected to the encryption circuit via a CPU bus (B), using the disk key itself. A first transmitter transmits the encrypted disk key. A second encryption unit encrypts the disk key using a master key. A second transmitter transmits the encrypted disk key. A third encryption unit encrypts multimedia data in which an electronic watermark information which is a part of the master key is embedded. A third transmitter transmits the encrypted multimedia data. A first and second decoding unit individually decodes the two encrypted disk keys. A third decoding unit decodes the encrypted multimedia data.

USE - For preventing copying contents of recording medium e.g. floppy disk, CD, DVD.

ADVANTAGE - Illegal selling of copies is prevented. Enables copyright to be protected more firmly. DESCRIPTION OF DRAWING(S) - The drawing shows the block diagram of the copy prevention apparatus. (4) Encryption circuit; (5) Decoding circuit; (11) Extraction circuit; (B) CPU bus.

US 6438692B

NOVELTY - An extraction circuit (11) obtains the watermark information from the encrypted and then decoded multimedia data. A disk key acquisition unit obtains a disk key based on a partial master key. The obtained disk key is used in a fourth decoding unit for decoding multimedia transmitted by a fourth transmitter. DETAILED DESCRIPTION - An encryption circuit (4) has a first encryption unit that encrypts the disk key of a decoding circuit (5) which is connected to the encryption circuit via a CPU bus (B), using the disk key itself. A first transmitter transmits the encrypted disk key. A second encryption unit encrypts the disk key using a master key. A second transmitter transmits the encrypted disk key. A third encryption unit encrypts multimedia data in which an electronic watermark information which is a part of the master key is embedded. A third transmitter transmits the encrypted multimedia data. A first and second decoding unit individually decodes the two encrypted disk keys. A third decoding unit decodes the encrypted multimedia data.

USE - For preventing copying contents of recording medium e.g. floppy disk, CD, DVD.

ADVANTAGE - Illegal selling of copies is prevented. Enables copyright to be protected more firmly. DESCRIPTION OF DRAWING(S) - The drawing shows the block diagram of the copy prevention apparatus. (4) Encryption circuit; (5) Decoding circuit; (11) Extraction circuit; (B) CPU bus.

US20020003880A

NOVELTY - An extraction circuit (11) obtains the watermark information from the encrypted and then decoded multimedia data. A disk key acquisition unit obtains a disk key based on a partial master key. The obtained disk key is used in a fourth decoding unit for decoding multimedia transmitted by a fourth transmitter. DETAILED DESCRIPTION - An encryption circuit (4) has a first encryption unit that encrypts the disk key of a decoding circuit (5) which is connected to the encryption circuit via a CPU bus (B), using the disk key itself. A first transmitter transmits the encrypted disk key. A second encryption unit encrypts the disk key using a master key. A second transmitter transmits the encrypted disk key. A third encryption unit encrypts multimedia data in which an electronic watermark information which is a

part of the master key is embedded. A third transmitter transmits the encrypted multimedia data. A first and second decoding unit individually decodes the two encrypted disk keys. A third decoding unit decodes the encrypted multimedia data.

USE - For preventing copying contents of recording medium e.g. floppy disk, CD, DVD.

ADVANTAGE - Illegal selling of copies is prevented. Enables copyright to be protected more firmly. DESCRIPTION OF DRAWING(S) - The drawing shows the block diagram of the copy prevention apparatus. (4) Encryption circuit; (5) Decoding circuit; (11) Extraction circuit; (B) CPU bus.

DERWENT-CLASS: P85 T03 W04

EPI-CODES: T03-B01; T03-B05; T03-P01; T03-P07A; W04-C01; W04-C05;

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L3: Entry 17 of 21

File: DWPI

Jun 22, 1999

DERWENT-ACC-NO: 1999-428602

DERWENT-WEEK: 199936

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TITLE: Cryptographic system for secure key distribution and management for DVD copy protection

INVENTOR: AUCSMITH, D W

PATENT-ASSIGNEE: INTEL CORP (ITLC)

PRIORITY-DATA: 1996US-0740976 (November 5, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 5915018 A</u>	June 22, 1999		010	H04L009/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 5915018A	November 5, 1996	1996US-0740976	

INT-CL (IPC): H04 L 9/00; H04 L 9/30; H04 N 7/162

ABSTRACTED-PUB-NO: US 5915018A

BASIC-ABSTRACT:

NOVELTY - A portion of a digital video disc (DVD) is encoded with digital content encrypted under a content key which is encrypted under a public key and written out of band on another portion of the disc. An information handling system (206) is accessed by the player who receives the disc.

DETAILED DESCRIPTION - The player reads the contents of the disc. A video controller (210) attached to a video display (224) is coupled to the information handling system which is an MPEG decoder. The video display is either a television or a computer monitor. INDEPENDENT CLAIMS are also included for the following:

- (a) production method of the disc having secure contents;
- (b) method for converting encrypted digital video data to video signals suitable for driving a video display

USE - For secure key distribution and management for DVD copy protection.

ADVANTAGE - The received compressed and encrypted data is decompressed and

decrypted without exposing decrypted data or the cryptographic keys, as a result of which the DVD copy protection is not compromised.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of cryptographic system where access to the DVD content is secure.

Information handling system 206

Video display 224

ABSTRACTED-PUB-NO: US 5915018A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/4

DERWENT-CLASS: W01 W04
EPI-CODES: W01-A05A; W04-C10A3; W04-F01L1;

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L3: Entry 18 of 21

File: DWPI

May 11, 1999

DERWENT-ACC-NO: 1999-343375

DERWENT-WEEK: 199929

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TITLE: Reproduction device in compact disk player - has input unit acquiring process procedure required to detect key information for releasing of encryptions from optical disc, from exterior of apparatus

PATENT-ASSIGNEE: SONY CORP (SONY)

PRIORITY-DATA: 1997JP-0292071 (October 24, 1997)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 11126425 A</u>	May 11, 1999		010	G11B020/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 11126425A	October 24, 1997	1997JP-0292071	

INT-CL (IPC): G11 B 7/00; G11 B 20/10

ABSTRACTED-PUB-NO: JP 11126425A

BASIC-ABSTRACT:

NOVELTY - The input unit acquires information regarding processing technique required to detect key information for decoding digital signal reproduced from optical disc, from external side. DETAILED DESCRIPTION - Reproduced signal generator reproduces signal whose level varies depending on return light of laser beam. The signal is converted to digital by performing binary identification. Signal detector detects digital signal for generating key information. An INDEPENDENT CLAIM is also included for describing reproduction method.

USE - In compact disk (CD) player.

ADVANTAGE - Prevents illegal copy reliably by changing encryption technique based on requirement. DESCRIPTION OF DRAWING(S) - The figure depicts block diagram of CD player.

ABSTRACTED-PUB-NO: JP 11126425A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.3/4

DERWENT-CLASS: T03 W04

EPI-CODES: T03-B; T03-P01; W04-C;

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L3: Entry 19 of 21

File: DWPI

Mar 9, 1999

DERWENT-ACC-NO: 1999-238029

DERWENT-WEEK: 199920

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TITLE: Duplication prevention apparatus for CD, CD-ROM - records hologram that includes encryption key information for decoding information in areas other than recording area on disk

PATENT-ASSIGNEE: SONY CORP (SONY)

PRIORITY-DATA: 1997JP-0223870 (August 20, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 11066610 A</u>	March 9, 1999		005	G11B007/24

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 11066610A	August 20, 1997	1997JP-0223870	

INT-CL (IPC): G11 B 7/00; G11 B 7/24; G11 B 20/10; G11 B 20/12

ABSTRACTED-PUB-NO: JP 11066610A

BASIC-ABSTRACT:

NOVELTY - Encryption key for data recorded in recording area of CD (1) is prepared and hologram (3) including encryption key information to decide recorded information signal in areas other than recording area is recorded.

USE - For CD, CD-ROM.

ADVANTAGE - Duplication of data is prevented as reproduction of hologram is difficult and hence it is easy to differentiate the real copy. DESCRIPTION OF DRAWING(S) - The figure shows sketch of CD. (1) CD; (3) Hologram.

ABSTRACTED-PUB-NO: JP 11066610A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/5

DERWENT-CLASS: T03 W04

EPI-CODES: T03-B; T03-B01; T03-P01; T03-P01F; W04-C; W04-C01;

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L3: Entry 20 of 21

File: DWPI

Dec 16, 1998

DERWENT-ACC-NO: 1999-205633

DERWENT-WEEK: 199918

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TITLE: Digital laser disc player and disc anti-copying method - encodes anti-copying and audio-video data in digital multiplex MPEG stream

INVENTOR: YANG, Z

PATENT-ASSIGNEE: YANG Z (YANGI)

PRIORITY-DATA: 1998CN-0112027 (May 25, 1998)

Search Selected

Search ALL

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>CN 1201940 A</u>	December 16, 1998		001	G06F012/14

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1201940A	May 25, 1998	1998CN-0112027	

INT-CL (IPC): G06 F 12/14

ABSTRACTED-PUB-NO: CN 1201940A

BASIC-ABSTRACT:

The digital CD drive has an anti-forgery encoder set up in the MPEG encoder which is employed by a user to encrypt the copy prevention information. The encrypted anti-copying information and the audio and video data are encoded into a digital MPEG multiplex stream. An anti-copying decoder is set up in the MPEG decoder of the digital CD drive, which can decode the digital MPEG multiplex stream and its copy prevention information.

USE - Ensuring that only authorized digital CD drives can read legal digital CDs.

ABSTRACTED-PUB-NO: CN 1201940A

EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: T01 T03 W04

EPI-CODES: T01-H01B1; T01-H01C2; T03-P07A; W04-C10A3; W04-F01L1; W04-G01L1;

First Hit

End of Result Set

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L3: Entry 21 of 21

File: DWPI

Jan 11, 1996

DERWENT-ACC-NO: 1996-077634

DERWENT-WEEK: 200164

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TITLE: Copy-protection method for various program distribution media e.g. CD - combines symmetrical and asymmetrical data encryption of program data and authenticating signature may be added to disc when protection is required to prevent correct decryption of data on copy of protected disc

INVENTOR: RYAN, J O

PATENT-ASSIGNEE: MACROVISION CORP (MACRN)

PRIORITY-DATA: 1994US-0267635 (June 29, 1994)

Search Selected**Search ALL****Clear**

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>WO 9600963 A1</u>	January 11, 1996	E	018	G11B020/00
<input type="checkbox"/> <u>DE 69522328 E</u>	September 27, 2001		000	G11B020/00
<input type="checkbox"/> <u>AU 9529568 A</u>	January 25, 1996		000	G11B020/00
<input type="checkbox"/> <u>US 5513260 A</u>	April 30, 1996		009	G11B023/28
<input type="checkbox"/> <u>TW 295656 A</u>	January 11, 1997		000	G11B023/28
<input type="checkbox"/> <u>EP 767957 A1</u>	April 16, 1997	E	000	G11B020/00
<input type="checkbox"/> <u>JP 10502479 W</u>	March 3, 1998		025	G11B020/10
<input type="checkbox"/> <u>AU 695097 B</u>	August 6, 1998		000	G11B020/00
<input type="checkbox"/> <u>EP 767957 B1</u>	August 22, 2001	E	000	G11B020/00

DESIGNATED-STATES: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG UZ VN AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG AT BE CH DE DK GB IE IT LI NL SE AT BE CH DE DK FR GB IE IT LI NL SE

CITED-DOCUMENTS:03Jnl.Ref; EP 492692 ; EP 545472 ; JP 62205580 ; US 4405829

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9600963A1	June 27, 1995	1995WO-US08324	
DE 69522328E	June 27, 1995	1995DE-0622328	

DE 69522328E	June 27, 1995	1995EP-0925437	
DE 69522328E	June 27, 1995	1995WO-US08324	
DE 69522328E		EP 767957	Based on
DE 69522328E		WO 9600963	Based on
AU 9529568A	June 27, 1995	1995AU-0029568	
AU 9529568A		WO 9600963	Based on
US 5513260A	June 29, 1994	1994US-0267635	
TW 295656A	February 5, 1996	1996TW-0101396	
EP 767957A1	June 27, 1995	1995EP-0925437	
EP 767957A1	June 27, 1995	1995WO-US08324	
EP 767957A1		WO 9600963	Based on
JP 10502479W	June 27, 1995	1995WO-US08324	
JP 10502479W	June 27, 1995	1996JP-0503468	
JP 10502479W		WO 9600963	Based on
AU 695097B	June 27, 1995	1995AU-0029568	
AU 695097B		AU 9529568	Previous Publ.
AU 695097B		WO 9600963	Based on
EP 767957B1	June 27, 1995	1995EP-0925437	
EP 767957B1	June 27, 1995	1995WO-US08324	
EP 767957B1		WO 9600963	Based on

INT-CL (IPC): G09 C 1/00; G11 B 7/00; G11 B 20/00; G11 B 20/10; G11 B 23/28; G11 B 23/40; H04 L 9/14; H04 L 9/30; H04 L 9/32

RELATED-ACC-NO: 1996-151618; 1997-052725

ABSTRACTED-PUB-NO: EP 767957B

BASIC-ABSTRACT:

The method involves adding an authenticating signature (29) to media to be copy-protected. Program data is passed through a first encryptor (22). The first encrypted program data is then passed through a second encryptor (25).

The data from the second encryptor is recorded on a media, e.g. CD. A media player is then able to detect the authenticating signature and pass the decoder data, from the media, through a first decrypter. The first decrypted data is passed through a second decrypter. An output of the second decrypter is selected when an authenticating signal is detected and, an output of the first decrypter is selected when an authenticating signature is not detected.

USE/ADVANTAGE - Adaptable for use with any storage medium. Affords high level of protection. Immune to black boxes.

ABSTRACTED-PUB-NO: US 5513260A

EQUIVALENT-ABSTRACTS:

The method involves adding an authenticating signature (29) to media to be copy-protected. Program data is passed through a first encryptor (22). The first encrypted program data is then passed through a second encryptor (25).

The data from the second encryptor is recorded on a media, e.g. CD. A media player is then able to detect the authenticating signature and pass the decoder data, from

the media, through a first decrypter. The first decrypted data is passed through a second decrypter. An output of the second decrypter is selected when an authenticating signal is detected and, an output of the first decrypter is selected when an authenticating signature is not detected.

USE/ADVANTAGE - Adaptable for use with any storage medium. Affords high level of protection. Immune to black boxes.

A method of providing copy-protection for a program distribution medium comprising the steps of:

adding an authenticating signature to media to be copy-protected;

passing program data through a first encryptor;

passing said first encrypted program data from said first encryptor through a second encryptor;

recording the data from the second encryptor on a media;

detecting the authenticating signature in a media player;

passing decoded data from said media through a first decryptor;

passing said first decrypted data from said first decryptor through a second decryptor;

selecting an output of said second decryptor when an authenticating signal is detected, and selecting an output of said first decryptor when an authenticating signature is not detected.

WO 9600963A

CHOSEN-DRAWING: Dwg.1/2 Dwg.1/2

DERWENT-CLASS: P85 T03 W04

EPI-CODES: T03-B06C; T03-J01; T03-N01; T03-P07; W04-C06; W04-C10A; W04-F01L; W04-H01;

Refine Search

Search Results -

Terms	Documents
((copies or copy or duplicat\$) with encrypt\$) same (dvd or cd)	21

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L3

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Search History

DATE: Thursday, March 18, 2004 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR

L3 ((copies or copy or duplicat\$) with encrypt\$) same (dvd or cd) 21 L3

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L2 L1 or 6226618.pn. 3 L2

L1 6389538.pn. or 6611812.pn. 2 L1

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1. Document ID: WO 3049664 A2

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K/MC	Draw Des
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☐ 2. Document ID: WO 3042988 A1

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K/MC	Draw Des
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☐ 3. Document ID: EP 1246104 A1

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K/MC	Draw Des
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☐ 4. Document ID: EP 1102249 A1

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K/MC	Draw Des
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☐ 5. Document ID: KR 2003081105 A, EP 1353331 A2, JP 2004005940 A, CN 1452166 A

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Des
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☐ 6. Document ID: EP 1374237 A2, US 20020141577 A1, WO 200280170 A2

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Des
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☐ 7. Document ID: JP 2002304808 A, EP 1229536 A2, US 20020144114 A1

-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Des
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☐ 8. Document ID: JP 2002164885 A

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Des
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☐ 9. Document ID: TW 436691 A

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Des
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☐ 10. Document ID: JP 2001084695 A

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Des
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Print

Fwd Refs

Backwd Refs

Generate OACS

Terms	Documents
((copies or copy or duplicat\$) with encrypt\$) same (dvd or cd)	21

Display Format:

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[Go to Doc#](#)

First Hit Fwd Refs
☐ **Generate Collection** **Print**

L2: Entry 2 of 3

File: USPT

May 14, 2002

US-PAT-NO: 6389538

DOCUMENT-IDENTIFIER: US 6389538 B1

TITLE: System for tracking end-user electronic content usage

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gruse; George Gregory	Lighthouse Point	FL		
Dorak, Jr.; John J.	Boca Raton	FL		
Milsted; Kenneth Louis	Boynton Beach	FL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY				02

APPL-NO: 09/ 177096 [PALM]

DATE FILED: October 22, 1998

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This is a continuation-in-part of application Ser. No. 09/133,519, filed Aug. 13, 1998, now U.S. Pat. No. 6,226,618. The entire disclosure of prior application Ser. No. 09/133,519 is herein incorporated by reference. Additionally, this application claims subject matter that is technically related to the following applications that are commonly assigned herewith to International Business Machines Corporation (IBM). TITLE OF ATTORNEY APPLICATION THE DOC. NO. SER. NO. INVENTION INVENTOR(S) SE9-98-006 09/152756 Secure Kenneth L. Milsted Electronic George Gregory Gruse Content Marco M. Hurtado Management Edgar Downs Cesar Medina SE9-98-007 09/209440 Multimedia George Gregory Gruse Player Toolkit John J. Dorak, Jr. Kenneth L. Milsted SE9-98-008 09/241276 Multimedia Kenneth L. Milsted Content Cre- Qing Gong ation System Edgar Downs SE9-98-010 09/203307 Key Jeffrey B. Lotspiech Management Marco M. Hurtado System for George Gregory Gruse End-User Dig- Kenneth L. Milsted ital Player SE9-98-011 09/208774 Multi-media Marco M. Hurtado player for an George Gregory Gruse Electronic Edgar Downs Content De- Kenneth L. Milsted livery System SE9-98-013 09/203306 A method to Kenneth L. Milsted identify CD Craig Kindell content Qing Gong SE9-98-014 09/203315 Toolkit for de- Richard Spagna livering elec- Kenneth L. Milsted tronic content David P. Lybrand from an Online Edgar Downs store. SE9-98-015 09/201622 A method and Kenneth L. Milsted apparatus to Kha Kinh Nguyen automatically Qing Gong create encode digital content SE9-98-016 09/201475 A method and Kenneth L. Milsted apparatus to Qing Gong indicate an encoding rate for digital content

INT-CL: [07] G06 F 11/30, G06 F 12/14, H04 L 9/32

US-CL-ISSUED: 713/194; 713/168, 713/171, 713/182, 705/51, 705/57

US-CL-CURRENT: 713/194; 705/51, 705/57, 713/168, 713/171, 713/182

FIELD-OF-SEARCH: 705/51, 705/56-57, 705/55, 380/4, 380/24, 380/25, 713/200, 713/201, 713/68, 713/194, 713/182, 713/171, 713/150, 384/4, 384/3, 384/6

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4200770</u>	April 1980	Hellman et al.	
<input type="checkbox"/>	<u>4218582</u>	August 1980	Hellman et al.	
<input type="checkbox"/>	<u>4272810</u>	June 1981	Gates et al.	
<input type="checkbox"/>	<u>4405829</u>	September 1983	Rivest et al.	
<input type="checkbox"/>	<u>4424414</u>	January 1984	Hellman et al.	
<input type="checkbox"/>	<u>4463387</u>	July 1984	Hashimoto et al.	
<input type="checkbox"/>	<u>4528643</u>	July 1985	Freeny, Jr.	
<input type="checkbox"/>	<u>4731840</u>	March 1988	Mniszewski et al.	
<input type="checkbox"/>	<u>4757534</u>	July 1988	Matyas et al.	
<input type="checkbox"/>	<u>4782529</u>	November 1988	Shima	
<input type="checkbox"/>	<u>4796220</u>	January 1989	Wolfe	705/56
<input type="checkbox"/>	<u>4803725</u>	February 1989	Horne et al.	
<input type="checkbox"/>	<u>4809327</u>	February 1989	Shima	
<input type="checkbox"/>	<u>4825306</u>	April 1989	Robers	
<input type="checkbox"/>	<u>4868687</u>	September 1989	Penn et al.	
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<input type="checkbox"/>	<u>4878246</u>	October 1989	Pastor et al.	
<input type="checkbox"/>	<u>4879747</u>	November 1989	Leighton et al.	
<input type="checkbox"/>	<u>4905163</u>	February 1990	Garber et al.	
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<input type="checkbox"/>	<u>5261002</u>	November 1993	Perlman et al.	
<input type="checkbox"/>	<u>5276901</u>	January 1994	Howell et al.	
<input type="checkbox"/>	<u>5315658</u>	May 1994	Micali	
<input type="checkbox"/>	<u>5319705</u>	June 1994	Halter et al.	
<input type="checkbox"/>	<u>5347580</u>	September 1994	Molva et al.	
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<input type="checkbox"/>	<u>5371794</u>	December 1994	Diffie et al.	
<input type="checkbox"/>	<u>5388211</u>	February 1995	Hornbuckle	717/178
<input type="checkbox"/>	<u>5412717</u>	May 1995	Fischer	
<input type="checkbox"/>	<u>5420927</u>	May 1995	Micali	
<input type="checkbox"/>	<u>5497421</u>	March 1996	Kaufman et al.	
<input type="checkbox"/>	<u>5509071</u>	April 1996	Petrie, Jr. et al.	
<input type="checkbox"/>	<u>5519778</u>	May 1996	Leighton et al.	
<input type="checkbox"/>	<u>5537475</u>	July 1996	Micali	
<input type="checkbox"/>	<u>5557541</u>	September 1996	Schulhof et al.	
<input type="checkbox"/>	<u>5581479</u>	December 1996	McLaughlin et al.	
<input type="checkbox"/>	<u>5588060</u>	December 1996	Aziz	
<input type="checkbox"/>	<u>5592664</u>	January 1997	Starkey	
<input type="checkbox"/>	<u>5604804</u>	February 1997	Micali	
<input type="checkbox"/>	<u>5606617</u>	February 1997	Brands	
<input type="checkbox"/>	<u>5636139</u>	June 1997	McLaughlin et al.	
<input type="checkbox"/>	<u>5646992</u>	July 1997	Subler et al.	
<input type="checkbox"/>	<u>5646998</u>	July 1997	Stambler	
<input type="checkbox"/>	<u>5649187</u>	July 1997	Hornbuckle	707/10
<input type="checkbox"/>	<u>5666420</u>	September 1997	Micali	
<input type="checkbox"/>	<u>5673316</u>	September 1997	Auerbach et al.	
<input type="checkbox"/>	<u>5675734</u>	October 1997	Hair	
<input type="checkbox"/>	<u>5710887</u>	January 1998	Chelliah et al.	
<input type="checkbox"/>	<u>5745574</u>	April 1998	Muftic	
<input type="checkbox"/>	<u>5796841</u>	August 1998	Cordery et al.	
<input type="checkbox"/>	<u>5892900</u>	April 1999	Ginter et al.	
<input type="checkbox"/>	<u>5925127</u>	July 1999	Ahmad	713/200
<input type="checkbox"/>	<u>5991399</u>	November 1999	Graunke et al.	713/194
	<u>6064739</u>	May 2000	Davis	380/200



<input type="checkbox"/> 6098056	August 2000	Rusnak et al.	713/200
<input type="checkbox"/> 6275936	August 2001	Kyojima et al.	713/182

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
9-285302	October 1997	JP	
9-335621	December 1997	JP	
10-086148	March 1998	JP	
10-139442	May 1998	JP	
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B. Kaliski, "Privacy Enhancement for Internet Electronic Mail: Part IV: Key Certification and Related Services", RFC 1424, Feb. 1993, pp. 1-8.

ART-UNIT: 2165

PRIMARY-EXAMINER: Coggins; Wynn

ASSISTANT-EXAMINER: Nguyen; Cuong H.

ATTY-AGENT-FIRM: Meyers; Steven J. Shofi; David M. Fleit, Kain, Gibbons, Gutman & Bongini P.L.

ABSTRACT:

A system for tracking usage of digital content on user devices. Electronic stores coupled to a network sell licenses to play digital content data to users. Content players, which receive from the network the licensed content data, are used to play the licensed content data. Additionally, a logging site that is coupled to the network tracks the playing of the content data. In particular, the logging site receives play information from the network, and the play information includes the number of times that the content data has been played by the associated content player. Also provided is a method for tracking usage of digital content on user devices. According to the method, a license to play digital content data is sold to a user, and the licensed content data is transmitted to a content player for the user. Further, information is transmitted to a logging site whenever the content data is played by the content player or copied from the content player to an external medium so that usage of the licensed content data can be tracked.

44 Claims, 21 Drawing figures

First Hit Fwd Refs

End of Result Set



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L2: Entry 3 of 3

File: USPT

May 1, 2001

US-PAT-NO: 6226618

DOCUMENT-IDENTIFIER: US 6226618 B1

TITLE: Electronic content delivery system

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Downs; Edgar	Fort Lauderdale	FL		
Gruse; George Gregory	Lighthouse Point	FL		
Hurtado; Marco M.	Boca Raton	FL		
Lehman; Christopher T.	Delray Beach	FL		
Milsted; Kenneth Louis	Boynton Beach	FL		
Lotspiech; Jeffrey B.	San Jose	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk NY					02

APPL-NO: 09/ 133519 [PALM]

DATE FILED: August 13, 1998

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This non-provisional application claims subject matter that is technically related to the following applications that are commonly assigned herewith to International Business Machines (IBM). APPLI- CATION ATTORNEY SERIAL TITLE OF THE DOC. NO. NO. INVENTION INVENTOR(S) SE9-98-006 09/152,756 Secure Electronic Kenneth L. Milsted Content George Gregory Gruse Management Marco M. Hurtado Edgar Downs Cesar Medina SE9-98-007 09/209,440 Multimedia Player George Gregory Gruse Toolkit John J. Dorak, Jr. Kenneth L. Milsted SE9-98-008 09/241,276 Multimedia Content Kenneth L. Milsted Creation System Qing Gong Edgar Downs SE9-98-009 09/177,096 System for Tracking George Gregory Gruse End-User Electronic John J. Dorak, Jr. Content Kenneth L. Milsted SE9-98-010 09/203,307 Key Management Jeffrey B. Lotspiech System for End- Marco M. Hurtado User Digital Player George Gregory Gruse Kenneth L. Milsted SE9-98-011 09/208,774 Multi-media player Marco M. Hurtado for an Electronic George Gregory Gruse Content Delivery Edgar Downs System Kenneth L. Milsted SE9-98-013 09/203,306 A method to Kenneth L. Milsted identify CD content Craig Kindell Qing Gong SE9-98-014 09/203,315 Toolkit for Richard Spagna delivering electronic Kenneth L. Milsted content from an David P. Lybrand Online store. Edgar Downs SE9-98-015 09/201,622 A method and Kenneth L. Milsted apparatus to Kha Kinh Nguyen automatically create Qing Gong encode audio SE9-98-016 A method and Kenneth L. Milsted apparatus to Qing Gong indicate an encoding rate for audio

INT-CL: [07] H04 L 9/00

US-CL-ISSUED: 705/1; 705/1, 705/26, 705/27, 705/51, 705/53, 705/57, 705/59, 705/71, 380/4, 380/23, 380/24, 380/25, 380/44, 380/279, 380/281, 380/282

US-CL-CURRENT: 705/1; 380/279, 380/281, 380/282, 380/285, 380/30, 380/44, 705/26, 705/27, 705/51, 705/53, 705/57, 705/59 , 705/71

FIELD-OF-SEARCH: 705/4, 705/51, 705/53, 705/57, 705/59, 705/71, 705/26, 705/27, 380/4, 380/44, 380/23, 380/25, 380/281, 380/282, 380/279, 707/9

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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S. Kent, "Privacy Enhancement for Internet Electronic Mail: Part II: Certificate-Based Key Management". RFC 1422, Feb., 1993, pp. 1-28.
D. Balenson, "Privacy Enhancement for Internet Mail: Part III: Algorithms, Modes, and Identifiers", RFC 1423, Feb. 1993, pp. 1-13.
B. Kaliski, "Privacy Enhancement for Internet Electronic Mail: Part IV: Key Certification and Related Services", RFC 1424, Feb. 1993, pp. 1-8.

ART-UNIT: 274

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Nguyen; Nga B.

ATTY-AGENT-FIRM: Meyers; Steven J. Soucar; Steven J. Fleit, Kain, Gibbons, Gutman & Bongini P.L.

ABSTRACT:

Disclosed is a method and apparatus of securely providing data to a user's system. The data is encrypted so as to only be decryptable by a data decrypting key, the data decrypting key being encrypted using a first public key, and the encrypted data being accessible to the user's system, the method comprising the steps of: transferring the encrypted data decrypting key to a clearing house that possesses a first private key, which corresponds to the first public key; decrypting the data decrypting key using the first private key; re-encrypting the data decrypting key using a second public key; transferring the re-encrypted data decrypting key to the user's system, the user's system possessing a second private key, which corresponds to the second public key; and decrypting the re-encrypted data decrypting key using the second private key.

26 Claims, 20 Drawing figures